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**APPLICATION NUMBER: 60/531,732**

**FILING DATE: *December 22, 2003***

**RELATED PCT APPLICATION NUMBER: *PCT/US04/43690***



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## PROVISIONAL APPLICATION FOR PATENT COVER SHEET

This is a request for filing a PROVISIONAL APPLICATION FOR PATENT under 37 CFR 1.53 (c).

Express Mail Label No. EV395988815US

INVENTOR(S)					
Given Name (first and middle [if any])	Family Name or Surname		Residence (City and either State or Foreign Country)		
Mark Alan Matthew Robert	Schultz Lamb		Carmel, Indiana Westfield, Indiana		
<input checked="" type="checkbox"/> Additional inventors are being named on the 1 separately numbered sheets attached hereto					
TITLE OF THE INVENTION (280 characters max)					
MOVEABLE LIGHT MASKING FOR SEGMENTED DISPLAYS					
CORRESPONDENCE ADDRESS					
Direct all correspondence to:					
<input type="checkbox"/> Customer Number		<input type="text"/>		→ <div>Place Customer Number Bar Code Label here</div>	
OR Type Customer Number here					
<input checked="" type="checkbox"/> Firm or Individual Name		JOSEPH S. TRIPOLI, THOMSON LICENSING INC.			
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Country		USA	Telephone	609-734-6834	Fax 609-734-6888
ENCLOSED APPLICATION PARTS (check all that apply)					
<input checked="" type="checkbox"/> Specification Number of Pages		5	<input type="checkbox"/> CD(s), Number		<input type="text"/>
<input checked="" type="checkbox"/> Drawing(s) Number of Sheets		Inclusive	<input type="checkbox"/> Other (specify)		<input type="text"/>
<input type="checkbox"/> Application Data Sheet. See 37 CFR 1.76					
METHOD OF PAYMENT OF FILING FEES FOR THIS PROVISIONAL APPLICATION FOR PATENT (check one)					
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27.					
<input type="checkbox"/> A check or money order is enclosed to cover the filing fees					
<input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge filing fees or credit any overpayment to Deposit Account Number: 07-0832					
<input type="checkbox"/> Payment by credit card. Form PTO-2038 is attached.					
FILING FEE AMOUNT (\$) 160					
The invention was made by an agency of the United States Government or under a contract with an agency of the United States Government.					
<input checked="" type="checkbox"/> No.					
<input type="checkbox"/> Yes, the name of the U.S. Government agency and the Government contract number are: _____					

Respectfully submitted

SIGNATURE

*Patricia A. Verlangien*

Date

12/22/03

REGISTRATION NO.

42,201

(if appropriate)

TYPED or PRINTED NAME

Patricia A. Verlangien

Docket Number:

PU030327

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*Additional Page*

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Docket Number	PU030327	Type a plus sign (+) inside this box →	+
<b>INVENTOR(S)/APPLICANT(S)</b>			
Given Name (first and middle [if any])	Family or Surname	Residence (City and either State or Foreign Country)	
Charles Bryan	Hunt	Westfield, Indiana	

Number 1 of 1

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**1. Descriptive Invention Title:** Moveable Light Masking for Segmented Displays**2. Inventor (s) Information** (The first named inventor should be the primary contact for Patent Operations)

<b>First Name</b>	Mark	<b>Middle Name</b>	Alan	<b>Last Name</b>	Schultz
<b>First Name</b>	Matthew	<b>Middle Name</b>	Robert	<b>Last Name</b>	Lamb
<b>First Name</b>	Charles	<b>Middle Name</b>	Bryan	<b>Last Name</b>	Hunt

**Brief summary of the invention:**

This is a mechanical device to block undesired light from a projector in a multi-projector display while still allowing individual projectors to move freely during alignment.

**Background**

This device blocks undesired light from surfacing above the lens while still allowing the lens and projector to be moved around for alignment.

Loose cloth masking and boards were used in the past but both had problems. Most cloth is flammable which is a concern next to +100W lamps and moveable masking usually means that the cloth has slack that sags toward the lamps creating the fire hazard. When stiff material is used, the alignment process requires that holes be cut and repaired based on the latest alignment which is labor intensive and sometimes torques the lenses. This invention fixes both of these problems.

**Description of the Invention**

The main idea is to use a solid platform similar to a table around the exit pupil of the projector lenses. A hole is cut large enough around each lens to accommodate the alignment of each projector in the segmented display. A stiff masking that resembles an inverted top-hat with the top of the hat removed is then placed over each lens to mask the undesired light. This top-hat has a tube that is slightly larger in diameter than the outside dimensions of the lens which fits over the lens. The larger rectangle of material, analogous to the brim of the hat, must be larger than the opening in the table for each projector and has the tube inserted at 90 degrees to complete the adjustable masking. This masking design is a cylinder that is passed through a plane with the cylinder being the size of the lens.

This technique allows a very adjustable platform, eliminates the fire hazards that cloth presents, provides a very effective light masking, and provides a means to easily remove the masking during projector setup and to place the masking back in place within seconds.

The first few drawings show the general projector setup for the segmented display. The next page shows where the masking is applied in the frame. The last set of pictures show the components of the masking and the way they work together.

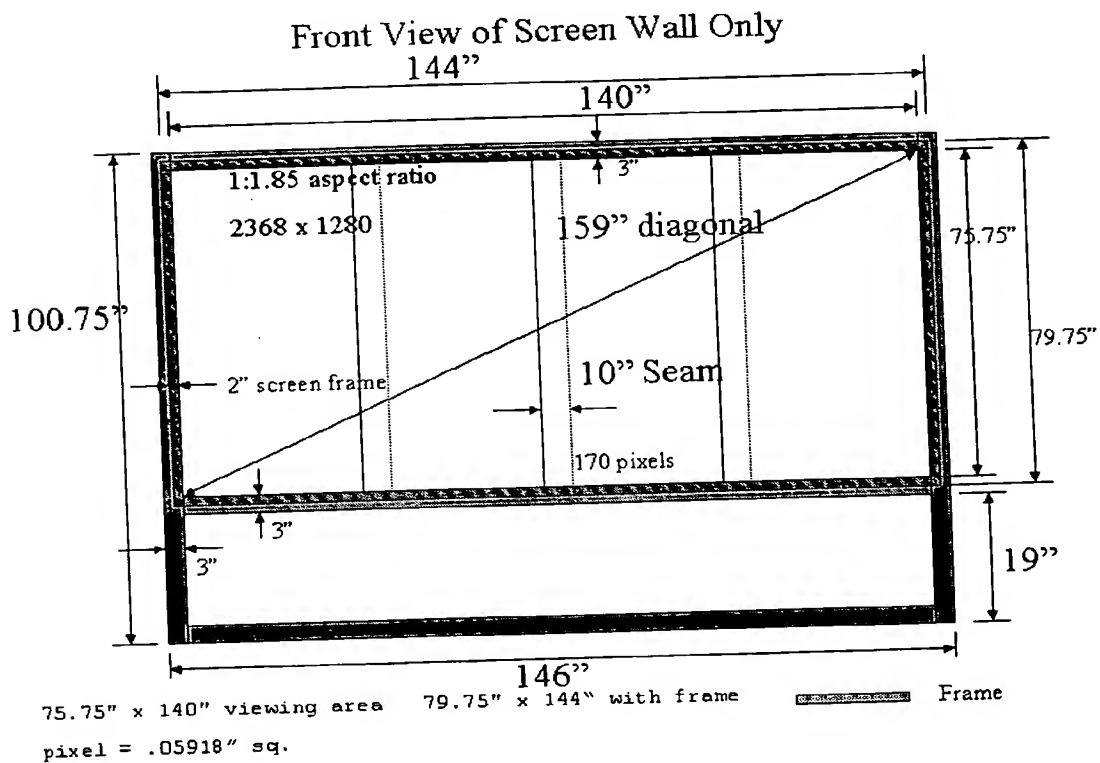


Figure 1

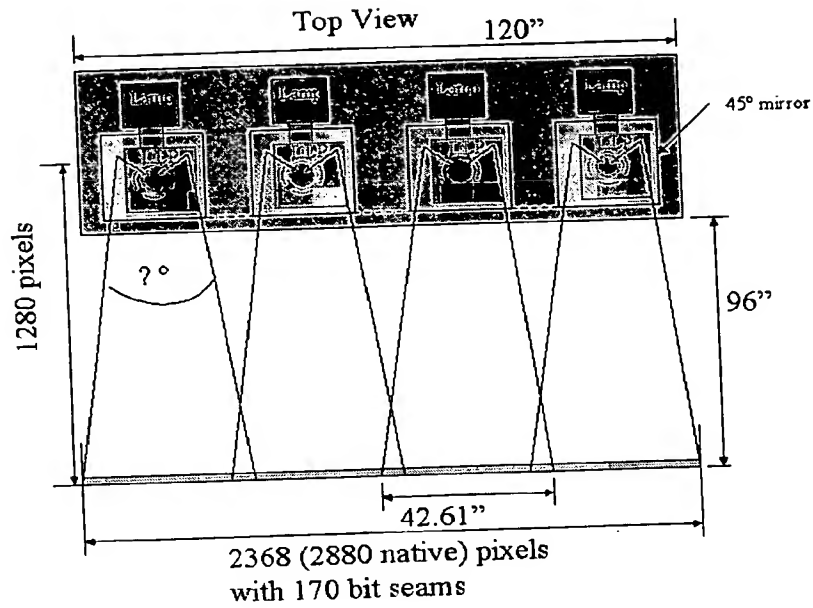


Figure 2

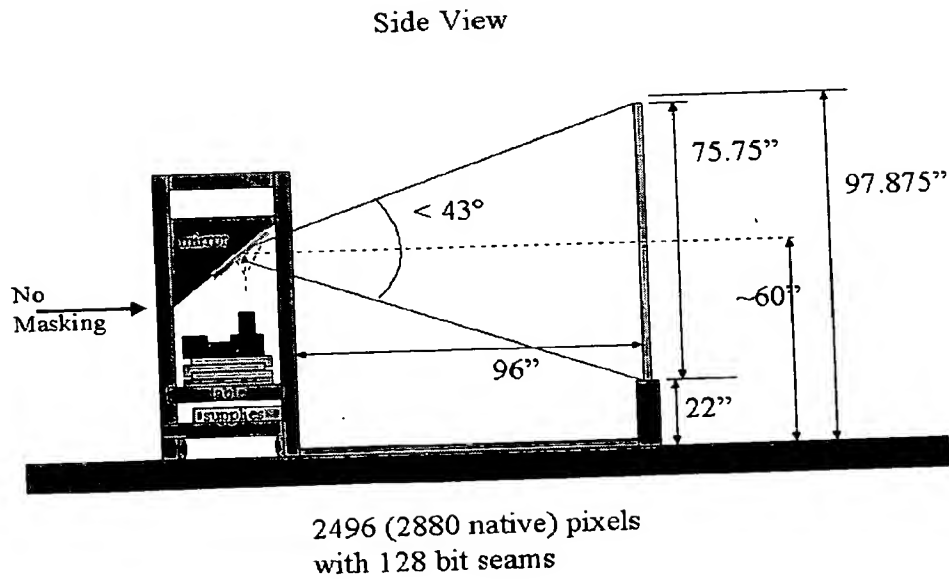


Figure 3



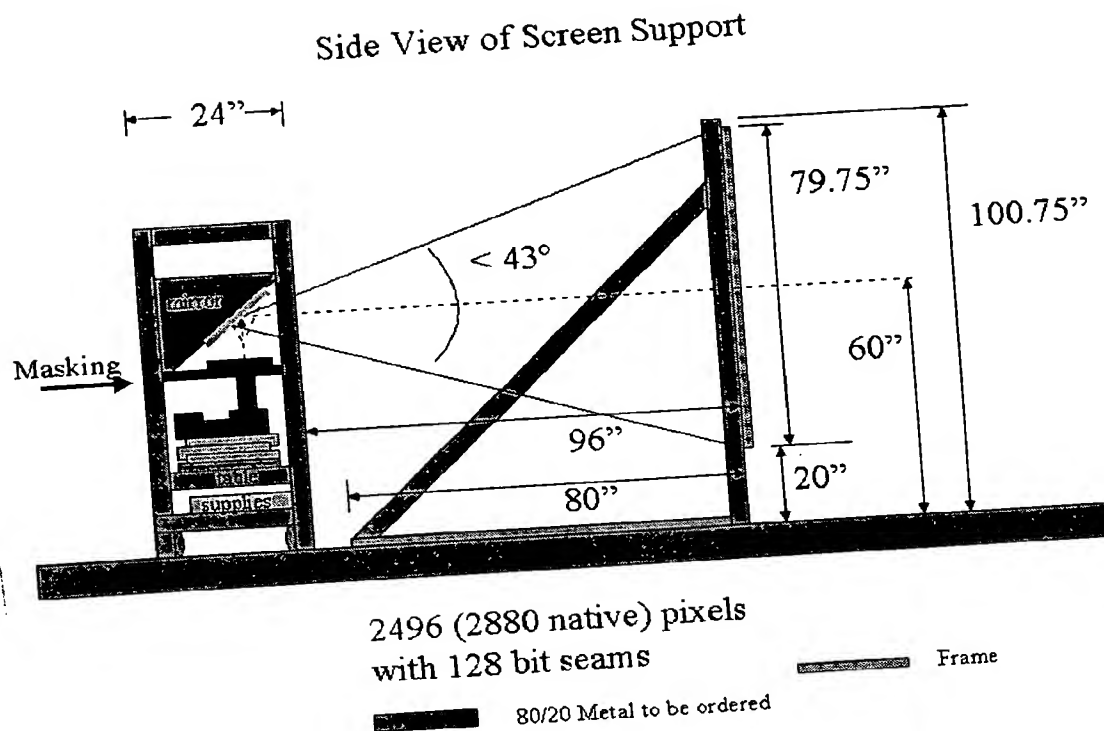


Figure 4

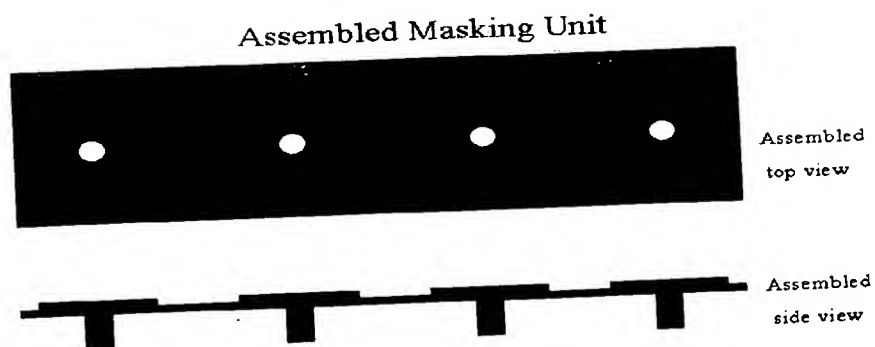


Figure 5

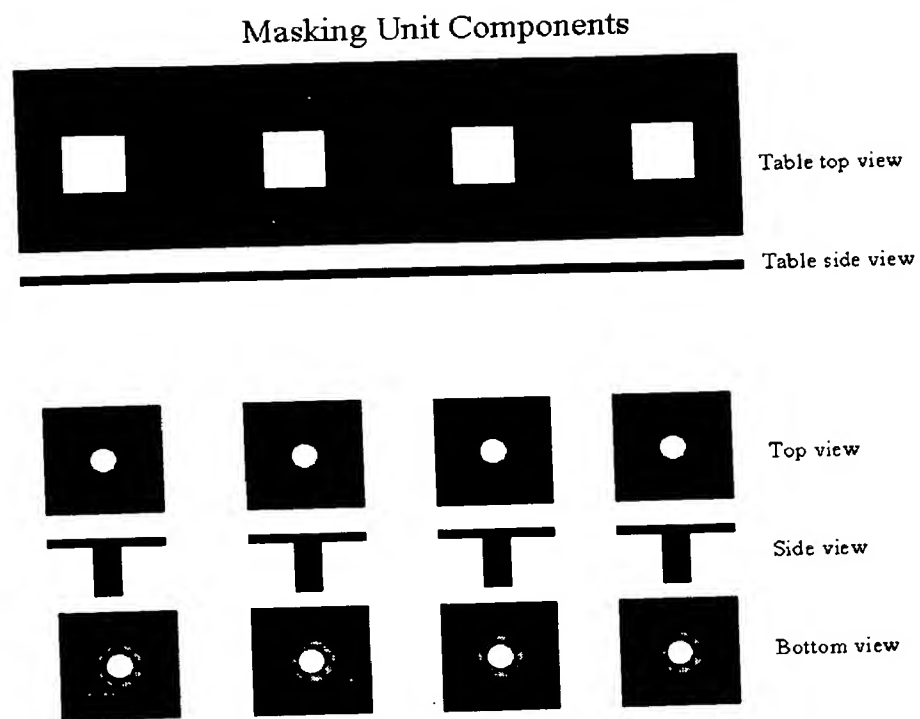


Figure 6